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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/714,996	11/17/2003	Michael Francis Carolan	06355 USA	2282	
23543	7590 09/16/2005		EXAM	INER	
AIR PRODUCTS AND CHEMICALS, INC. PATENT DEPARTMENT			SPITZER, F	SPITZER, ROBERT H	
	TON BOULEVARD		ART UNIT	PAPER NUMBER	
ALLENTOW	N, PA 181951501	1724			
			DATE MAILED, 00/15/200	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summary	10/714,996	CAROLAN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Robert H. Spitzer	1724					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If.NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days illi apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D. (35 U.S.C. & 133)					
Status		,					
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on						
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This	This action is FINAL. 2b) This action is non-final.						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-33</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1-33</u> is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers		:					
9) The specification is objected to by the Examiner	г.						
10)⊠ The drawing(s) filed on <u>17 November 2003</u> is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		•					
Attachment(s)							
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary ( Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal Pa	atent Application (PTO-152)					
Paper No(s)/Mail Date <u>11/17/2003</u> .	6)  Other:						

the

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## **DETAILED ACTION**

1. Claims 1-33 are allowed.

2. This application is in condition for allowance except for the following formal matters:

On Fig. 3, provide a description of number "357";

Para. [0059], line 4, "a" should be "an";

Para. [0074], line 4, "335" should be "333";

Para. [0079], line 11, the second occurrence of "a" should be "an";

Para. [0092], line 4, "313" should be "513";

Para. [0094], line 2, "501 through 513" should be "501,505,509 and 513";

Para. [0098], lines 1 and 2, "501 through 513" should be "501,505,509 and 513";

Para. [0099], line 5, "lines" should be "line";

Para. [0101], line 10, a "." should be inserted after "period";

Para. [0102], line 3, "provides the provides the" should be "provides the"; and,

Para. [0104], line 5, "670c" should be "607c".

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

3. The references listed on both the PTO-1449 and the PTO-892 show art of interest only, over which the claims recite allowable subject matter.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert H. Spitzer whose telephone number is (571) 272-1167. The examiner can normally be reached on Monday-Thursday from (5:30AM-4:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

August 17, 2005

Robert H. Spitzer Primary Examiner Art Unit 1724

August 17, 2005